

2009 IEEE/RSJ International Conference on Intelligent Robots and Systems
 Oct. 11th - 15th 2009, Hyatt Regency St. Louis Riverfront, St. Louis, Missouri, USA

Full-day Workshop on:

**Micro Aerial Vehicles from Technologies to Commercialization
 Ready or not ready?**

Sunday, October 11th, 2009

09:00	09:15	Welcome & Intro.	Samir Bouabdallah, Kimon Valavanis
09:15	09:20	Poster presentation	Acoustic Non-Line-Of-Sight Localization of a Micro Aerial Vehicle Lin Chi Mak, Mark Whitty, Jose Guivant and Jayantha Katupitiya, University of New South Wales, Australia
09:20	09:40	Bio-inspired systems	Dragonfly: A Biologically Inspired Micro Aerial Vehicle Jayant Ratti, James Kim and George Vachtsevanos, Georgia Tech, USA
09:40	10:00	Vision-based control	How to control MAVs in cluttered environments? Jean-Christophe Zufferey, Antoine Beyeler and Dario Floreano, EPFL, Switzerland
10:00	10:30	Coffee Break	
10:30	10:50	Vision-based control	Optical flow based navigation for a VTOL UAV Bruno Hérisse and Tarek Hamel, Univ. Nice, France
10:50	11:10		Onboard and ground visual control systems for UAVs Pascual Campoy, Iván Mondragón, Carol Martínez, Miguel Olivares, Univ. Poli. De Madrid, Spain
11:10	11:30	Heterogeneous systems	Mothership/Daughtership Architectures for Miniature Self-Deploying Systems Eric W. Frew, University of Colorado, USA
11:30	11:50	Test environments	A Scaled Environment for Comparing UAV Solutions Keith Sevcik, Paul Oh, Drexel University, Philadelphia, USA
11:50	12:10	Misc. Control	Recent research activities of UAVs and MAVs in Chiba University Kenzo Nonami and Syaril Azrad, Chiba university, Japan
12:10	14:00	Lunch Break	
14:00	14:20	Misc. Control	Coordinated control of micro UAVs for cooperative tasks V. Kumar, UPENN, USA
14:20	14:40		Decentralized Control of a Swarm of MAVs with Downward Pointing Cameras for Coverage Mac Schwager, Brian Julian and Daniela Rus, MIT, USA
14:40	15:00		Micro Air Vehicles - Design and Control for Autonomy Roland Siegwart, Samir Bouabdallah, Davide Scaramuzza and the ASL MAV team, ETHZ, Switzerland
15:00	15:30	Discussion	Panel discussion All participants
15:30	16:00	End of Workshop (Coffee Break)	